Abstracts

An Analysis of Minimally Perturbing Temperature Probe and Thermographic Measurements in Microwave Diathermy

C.U. Hochuli and G. Kantor. "An Analysis of Minimally Perturbing Temperature Probe and Thermographic Measurements in Microwave Diathermy." 1981 Transactions on Microwave Theory and Techniques 29.12 (Dec. 1981 [T-MTT] (1981 Symposium Issue)): 1285-1291.

Temperature measurements in fat-muscle phantoms using thermography and a minimally perturbing temperature probe were investigated. Two microwave applicators (915- and 2450-MHz) were used to induce the heating in the phantom. Discrepancies between data taken with the thermographic camera versus the probe were measured. These discrepancies were shown to be primarily caused by a 40-s time delay in performing temperature measurements with the thermographic camera, which resulted in additional thermal diffusion in the phantom.

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